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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,622	02/24/2004	Kazumasa Inoue	TKMTP127	2045
22434	7590 03/15/2006		EXAMINER	
BEYER WEAVER & THOMAS LLP			CHEUNG, WILLIAM K	
P.O. BOX 70250 OAKLAND, CA 94612-0250			ART UNIT	PAPER NUMBER
			1713	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		<u> </u>				
	-Application No.	Applicant(s)				
	10/786,622	INOUE ET AL.				
Office Action Summary	Examiner	Art Unit				
	William K. Cheung	1713				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10 Ja	anuary 2006.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) 1 and 5-17 is/are pending in the appli	cation.					
4a) Of the above claim(s) <u>12-17</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 5-11</u> is/are rejected.	•					
7) Claim(s) is/are objected to.	*	·				
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prio	·	ed in this National Stage				
application from the International Bureau	, ,,					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P	ate 'atent Application (PTO-152)				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	6) Other:	and the same of th				

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DETAILED ACTION

Request for Continued Examination

- 1. The request filed on January 10, 2006 for a Request for Continued Examination (RCE) under 37 CFR 1.53(d) based on parent Application No. 10/786,622 is acceptable and a RCE has been established. An action on the RCE follows.
- 2. In view of amendment filed December 8, 2005, claims 2-3 have been cancelled. Claims 1, 5-17 are pending. Claims 12-17 are drawn to non-elected subject matter.
- 3. The examiner acknowledges the receipt of amendment filed January 10, 2006. Claims 1, 5-11 are examined with merit.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kerkar et al. (US patent 5,604,273) in view of Ohta et al. (US Patent 5,660,626), further in view of Berke et al. (US Patent 5,571,319), and yet, still further in view of Kloetzer et al. (US Patent 4,927,463) for the reasons adequately set forth from paragraph 4 of fhe office action of October 13, 2005.

The invention of claims 1-11 relates to a multi-functional admixture for concrete, said multi-functional admixture comprising Component A by 20-84 weight %, Component B by 15-79 weight % and Component C by 0.3-3 weight % such that their total will be 100 weight %, wherein:

said Component A is one or more selected from the group consisting of graft copolymers obtained by a first process and a second process and salts of graft copolymers obtained further by a third process;

said **first process** is for obtaining <u>copolymers with weight-average molecular</u>

<u>weight of 10000-50000</u> by radical polymerization of a mixture of <u>radical</u> polymerizable

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monomers containing maleic anhydrides and monomers shown by Formula 1 by a total of 95 molar % or more at molar ratio of 50/50-70/30 in the absence of solvent;

Formula 1 is given by CH₂=CH₂-O-A¹-O-R¹;

said **second process** is <u>for obtaining graft copolymers</u> by <u>graft reaction of 100</u>

<u>weight parts of said copolymers</u> obtained in said first process with 0.05-5.0 weight parts

of polyether compounds shown by Formula 2;

Formula 2 is given by R²-O-A²-OH;

said **third process** is <u>for obtaining salts of graft copolymers</u> by partially or completely neutralizing said graft copolymers obtained in said second process with one or more selected from the group consisting of alkali metal hydroxides, alkali earth metal hydroxides and amines;

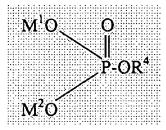
said Component B is (poly)alkyleneglycol monoalkyl ether shown by Formula 3;

Formula 3 is given by R³-O-A³-OH,

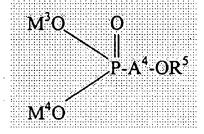
said Component C is organic phosphate shown by Formula 4 or Formula 5;

Formula 4 is given by

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Formula 5 is given by



where:

R¹ is methyl group, acetyl group or hydrogen atom;

 R^2 is aliphataic hydrocarbon group with 8-20 carbon atoms;

A¹ is residual group obtained by removing all hydroxyl groups from (poly)alkyleneglycol with (poly)oxyalkylene group having in molecule only 1-150 oxyethylene units or a total of 2-150 oxyethylene units and oxypropylene units;

A² is residual group obtained by removing all hydroxyl groups from (poly)alkyleneglycol with polyoxyalkylene group having in molecule a total of 23-70 oxyethylene units and oxypropylene units that are added in blocks;

R³ is alkyl group with 3-5 carbon atoms;

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A³ is residual group obtained by removing all hydroxyl groups from (poly)alkyleneglycol with (poly)oxyalkylene group having in molecule only 1-6 oxyethylene units or only 1-6 oxypropylene units, or a total of 2-8 oxyethylene units and oxypropylene units;

R⁴ and R⁵ are each alkyl group with 8-18 carbon atoms;

A⁴ is (poly)oxypropylene group with 1-5 oxypropylene units;

 M^1 , M^2 , M^3 and M^4 are each hydrogen atom, alkali metal, alkali earth metal, ammonium or organic amine.

Applicant's arguments filed December 8, 2005 and January 10, 2006 have been fully considered but they are not persuasive. Applicants argue the each of the prior art employed by the examiner are silent on the specific weight percent as claimed. However, the examiner disagrees because applicants must recognize that the components A and B as claimed are so broad that the examiner has a reasonable basis to believe that the claimed weight percents of components A and B are inherently possessed in the prior art. Regarding component C, applicants must recognize that Kloetzer et al. (col. 5-6, Table 1 to 3) clearly disclose weight percent of phosphoric acid ester ranging from 0.5 to 0.9 weight percent. Therefore, the 103 rejection set forth is proper.

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Priority

6. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on March 3, 2003. It is noted, however, that applicant has not filed a certified copy of the 2003-55175 application as required by 35 U.S.C. 119(b).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William K. Cheung whose telephone number is (571) 272-1097. The examiner can normally be reached on Monday-Friday 9:00AM to 2:00PM; 4:00PM to 8:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David WU can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

William K. Cheung, Ph. O.

Primary Examiner

March 11, 2006

WILLIAM K. CHEUNG PRIMARY EXAMINER

Business Center (EBC) at 866-217-9197 (toll-free).